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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,214	03/12/2004	Ravinder Patnam Krishnaswamy	G&C 30566.315-US-01	7441

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EXAMINER
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NGUYEN, PHILLIP H

ART UNIT	PAPER NUMBER
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2194

DATE MAILED: 08/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/799,214	KRISHNASWAMY ET AL.	
	Examiner	Art Unit	
	Phillip H. Nguyen	2194	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 March 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. This action is in response to the original filing of March 12, 2004. Claims 1-18 are pending and have been considered below.

#### ***Claim Objections***

2. Claims 6, 12, and 8 are objected to because of the following informalities:  
Claim 6 should depend on claim 1.  
Claim 12 should depend on claim 7.  
Claim 18 should depend on claim 13  
Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Glerum et al (US 6,785,848 B1).

5. Claim 1: Glerum discloses a method for providing contextual diagnostic data at a point of failure of a software program comprising:

- a. Registering callbacks for one or more modules and sub-applications within the program (Col 5, line 47-56);
- b. Examining a call stack for the program upon failure of the program (Col 6, line 23-45);
- c. Notifying the registered callbacks for the modules and sub-applications based on the examined call stack (Col 7, line 30-40);
- d. Performing callback processing, wherein the notified callbacks of the modules and sub-applications extract and supply context data (Col 8, line 37-50); and
- e. Packing the context data supplied by the notified callbacks of the modules and sub-application (Col 8, line 60-67).

Claim 2: Glerum discloses a method for providing contextual diagnostic data at a point of failure of a software program as in claim 1 above; and further discloses registering callbacks for the modules and sub-applications when an address of a procedure or function within the modules and sub-applications is on the call stack upon the failure of the program (Col 6, line 50-67; Col 7, line 1-5).

Claim 3: Glerum discloses a method for providing contextual diagnostic data at a point of failure of a software program as in claim 1 above; and further discloses the context data comprised of stack data, heap data, global data or external data (Col 8, line 37-50).

Claim 4: Glerum discloses a method for providing contextual diagnostic data at a point of failure of a software program as in claim 1 above; and further discloses storing the packaged context data (Col 8, line 37-50).

Claim 5: Glerum discloses a method for providing contextual diagnostic data at a point of failure of a software program as in claim 1 above; and further discloses transferring the packaged context data to a server computer (Col 8, line 60-67).

Claim 6: Glerum discloses a method for providing contextual diagnostic data at a point of failure of a software program as in claim 1 above; and further discloses storing the transferred packaged context data on the server computer (Col 9, line 1-20).

Claim 7: Glerum discloses an apparatus for providing contextual diagnostic data at a point of failure of a software program comprising:

- a. Registering callbacks for one or more modules and sub-applications within the program (Col 5, line 47-56);
- b. Examining a call stack for the program upon failure of the program (Col 6, line 23-45);
- c. Notifying the registered callbacks for the modules and sub-applications based on the examined call stack (Col 7, line 30-40);
- d. Performing callback processing, wherein the notified callbacks of the modules and sub-applications extract and supply context data (Col 8, line 37-50); and
- e. Packing the context data supplied by the notified callbacks of the modules and sub-application (Col 8, line 60-67).

Claim 8: Glerum discloses an apparatus for providing contextual diagnostic data at a point of failure of a software program as in claim 7 above; and further discloses registering callbacks for the modules and sub-applications when an address of a procedure or function within the modules and sub-applications is on the call stack upon the failure of the program (Col 6, line 50-67; Col 7, line 1-5).

Claim 9: Glerum discloses an apparatus for providing contextual diagnostic data at a point of failure of a software program as in claim 7 above; and further discloses the context data comprised of stack data, heap data, global data or external data (Col 8, line 37-50).

Claim 10: Glerum discloses an apparatus for providing contextual diagnostic data at a point of failure of a software program as in claim 7 above; and further discloses storing the packaged context data (Col 8, line 37-50).

Claim 11: Glerum discloses an apparatus for providing contextual diagnostic data at a point of failure of a software program as in claim 7 above; and further discloses transferring the packaged context data to a server computer (Col 8, line 60-67).

Claim 12: Glerum discloses an apparatus for providing contextual diagnostic data at a point of failure of a software program as in claim 7 above; and further discloses storing the transferred packaged context data on the server computer (Col 9, line 1-20).

Claim 13: Glerum discloses an article of manufacture embodying logic for providing contextual diagnostic data at a point of failure of a software program comprising:

- a. Registering callbacks for one or more modules and sub-applications within the program (Col 5, line 47-56);
- b. Examining a call stack for the program upon failure of the program (Col 6, line 23-45);
- c. Notifying the registered callbacks for the modules and sub-applications based on the examined call stack (Col 7, line 30-40);
- d. Performing callback processing, wherein the notified callbacks of the modules and sub-applications extract and supply context data (Col 8, line 37-50); and
- e. Packing the context data supplied by the notified callbacks of the modules and sub-application (Col 8, line 60-67).

Claim 14: Glerum discloses an article of manufacture embodying logic for providing contextual diagnostic data at a point of failure of a software program as in claim 13 above; and further discloses registering callbacks for the modules and sub-applications when an address of a procedure or function within the modules and sub-applications is on the call stack upon the failure of the program (Col 6, line 50-67; Col 7, line 1-5).



Claim 15: Glerum discloses an article of manufacture embodying logic for providing contextual diagnostic data at a point of failure of a software program as in claim 13 above; and further discloses the context data comprised of stack data, heap data, global data or external data (Col 8, line 37-50).

Claim 16: Glerum discloses an article of manufacture embodying logic for providing contextual diagnostic data at a point of failure of a software program as in claim 13 above; and further discloses storing the packaged context data (Col 8, line 37-50).

Claim 17: Glerum discloses an article of manufacture embodying logic for providing contextual diagnostic data at a point of failure of a software program as in claim 13 above; and further discloses transferring the packaged context data to a server computer (Col 8, line 60-67).

Claim 18: Glerum discloses an article of manufacture embodying logic for providing contextual diagnostic data at a point of failure of a software program as in claim 13 above; and further discloses storing the transferred packaged context data on the server computer (Col 9, line 1-20).

### **CONCLUSION**

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. Grover et al (US 2004/0059964 A1) discloses method for notification of an error in data exchanged between a client and a server.

b. Dawkins et al (US 6,839,892 B2) discloses operating system debugger extensions for hypervisor debugging.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip H. Nguyen whose telephone number is (571) 270-1070. The examiner can normally be reached on Monday - Friday 10:00 AM - 3:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Myhre can be reached on (571) 270-1065. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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8/17/06



James W. Myhre  
Supervisory Patent Examiner